



Advances in Laser Materials Processing and Applications

Guest Editor:

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Deadline for manuscript
submissions:

closed (20 April 2023)

Message from the Guest Editor

Dear Colleagues,

The laser has long outgrown any doubts regarding its usefulness. It continues to find new applications driven by evermore stringent manufacturing needs, and this has been accompanied by a continuing development of the laser itself, resulting in new irradiance regimes to be explored.

It seems timely to group together leading work in the fields of laser material interactions and the beam delivery techniques that are being developed to facilitate these many applications. Hence, we wish to highlight the latest advances in these exciting areas of applied science and engineering through the compilation of this Special Issue of *Materials*.

Keywords: lasers; laser material processing; laser ablation; laser beam delivery; ultrashort pulsed laser; fiber laser; laser applications; laser machining; beam scanning; beam delivery; beam shaping; laser material interactions; composite materials; toughened glass; laser drilling; laser machining; laser welding; dense hole arrays; filamentation; high aspect ratio machining; laser structuring of materials; thin film patterning; thin film deposition; nonlinear material interactions; stereolithography; laser sintering





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Message from the Editor-in-Chief

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